

## Re: CCD sensitivity and resolution

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- *From:* Davoud <[star@xxxxxxx](mailto:star@xxxxxxx)>
  - *Date:* Sat, 26 Jan 2008 16:45:30 GMT
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Davoud:

If (and I recognize that's a big if) Hubble GSC 2.2 is accurate, I have captured mag 21 stars with my Tak 180mm f2.8 astrograph and SBIG STL-11000 from my suburban location.

Chris L Peterson:

That sounds about right. Do you recall what kind of exposure time was required?

About three minutes.

The magnitudes (21—or less) are correct, but I made a misstatement. I see that GSC 2.2 has a magnitude limit of 19.5. Sure enough, using XEphem with field stars set to mag 30, the dimmest stars displayed are in the mag 19 range. I have stacks of FITS images that show stars dimmer than shown in XEphem, though they don't always show up in my reduced images because I try to process for aesthetics.

Davoud

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